

**6BK7-B****MEDIUM-MU TWIN TRIODE**

9-PIN MINIATURE TYPE

*With heater having controlled warm-up time. For TV tuners using direct-coupled cathode-drive circuits.***6BK7-B****GENERAL DATA****Electrical:**

Heater, for Unipotential Cathodes:

Voltage	6.3 ac or dc volts
Current	0.45 amp
Warm-up time (Average).	11 sec

*For definition of heater warm-up time and method of determining it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of this Section.*Direct Interelectrode Capacitances:^o

	Unit No. 1	Unit No. 2	
Grid to plate	1.8	1.8	μf
Grid to cathode, internal shield, and heater.	3	3	μf
Plate to cathode, internal shield, and heater.	1	0.9	μf
Heater to cathode	2.8	3	μf
Plate to cathode.	0.22	0.22	μf
Cathode to grid, internal shield, and heater.	6	6	μf
Plate to grid, internal shield, and heater.	2.4	2.4	μf
Grid of unit No.1 to grid of unit No.2.	0.004 max.		μf
Plate of unit No.1 to plate of unit No.2.	0.075 max.		μf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate-Supply Voltage.	150	volts
Cathode Resistor.	56	ohms
Amplification Factor.	43	
Plate Resistance (Approx.).	4600	ohms
Transconductance.	9300	μmhos
Plate Current	18	ma
Grid Volts (Approx.) for plate $\mu\text{a} = 10$	-11	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip).	1-9/16" \pm 3/32"
Diameter.	0.750" to 0.875"
Dimensional Outline	See General Section
Bulb.	T6-1/2

^o Without external shield.

6BK7-B

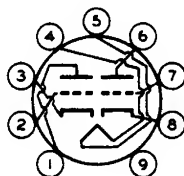


6BK7-B

MEDIUM-MU TWIN TRIODE

Base. Small-Button Noval 9-Pin (JETEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9AJ

Pin 1 - Plate of
 Unit No.2
 Pin 2 - Grid of
 Unit No.2
 Pin 3 - Cathode of
 Unit No.2
 Pin 4 - Heater
 Pin 5 - Heater



Pin 6 - Plate of
 Unit No.1
 Pin 7 - Grid of
 Unit No.1
 Pin 8 - Cathode of
 Unit No.1
 Pin 9 - Internal
 Shield

AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 300 max. volts
 GRID VOLTAGE:
 Negative-bias value 50 max. volts
 PLATE DISSIPATION 2.7 max. watts
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode. 200[■] max. volts
 Heater positive with respect to cathode. 200[▲] max. volts

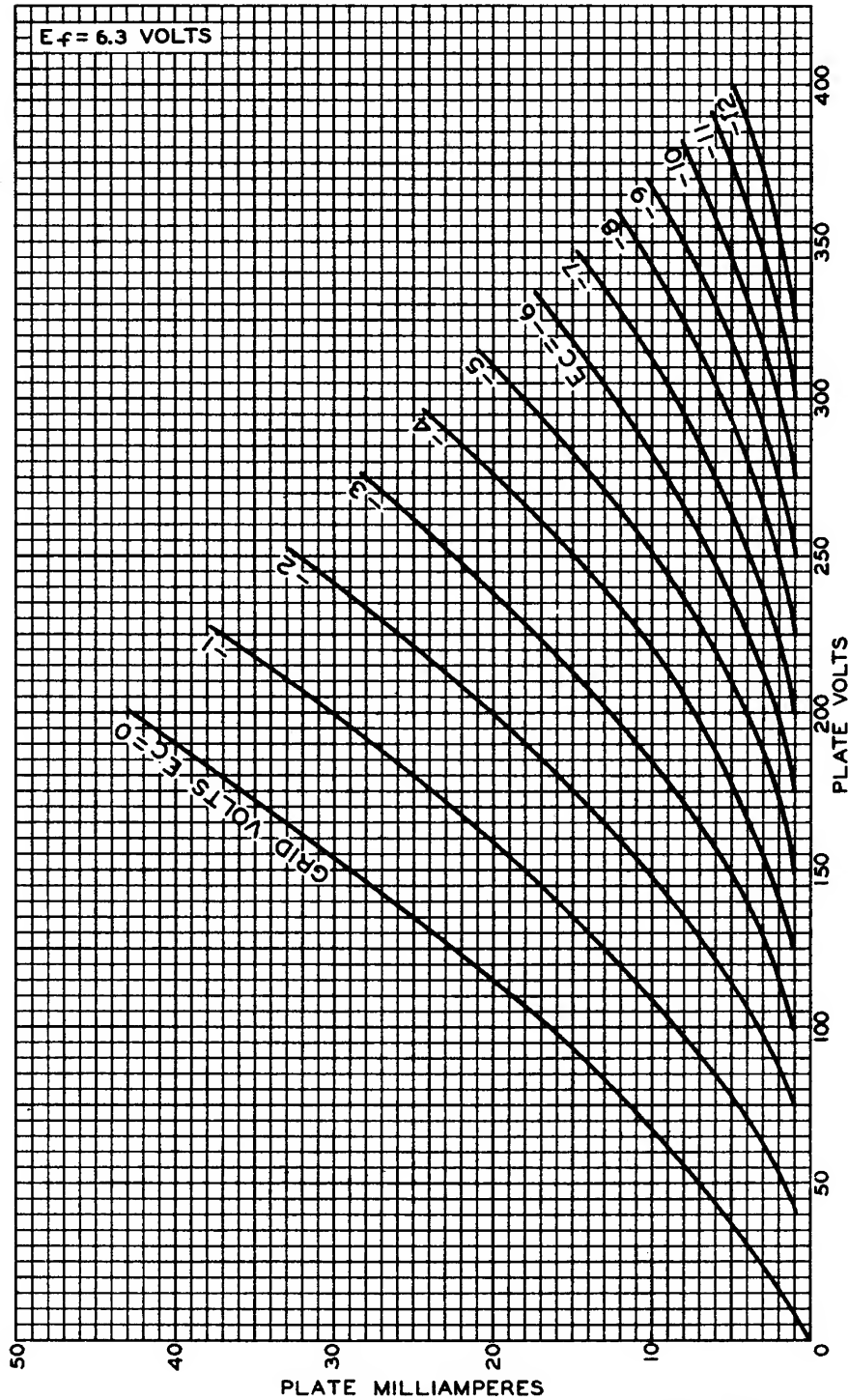
- Under cutoff conditions indirect-coupled cathode-drive circuits, it is permissible for this voltage to be as high as 300 volts.
- ▲ The dc component must not exceed 100 volts.



6BK7-B

AVERAGE PLATE CHARACTERISTICS
EACH UNIT

6BK7-B



ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9764

6BK7-B



6BK7-B

AVERAGE CHARACTERISTICS EACH UNIT

